

~~1884~~

Workehire Philosophical Society.

ANNUAL REPORT

FOR

MDCCCXXX.



ANNUAL REPORT

OF THE COUNCIL

OF THE

Yorkshire Philosophical Society

FOR

MDCCCXXX.

PRESENTED TO THE ANNUAL MEETING

FEBRUARY 1st, 1831.



YORK:

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1831.

C O N T E N T S.

	Page.
LIST OF THE TRUSTEES, PATRONS, OFFICERS, &c...	v
REPORT OF THE COUNCIL.....	1
TREASURER'S ANNUAL ACCOUNT.....	20
BUILDING ACCOUNT.....	22
SUBSCRIPTIONS TO BUILDING FUND, 1830-31.....	23
SCIENTIFIC COMMUNICATIONS.....	25
DONATIONS TO THE MUSEUM.....	27
DONATIONS TO THE LIBRARY.....	41
NEW MEMBERS.....	45

TRUSTEES
OF
The Yorkshire Museum,

APPOINTED BY THE ROYAL GRANT.

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Patrons of the Yorkshire Philosophical Society.

HIS GRACE THE ARCHBISHOP OF YORK
EARL OF CARLISLE
EARL OF TYRCONNEL, F.G.S.
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THE VISCOUNT MILTON, F.R.S. F.S.A. &c. &c.

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JOHN PHILLIPS, F.G.S.

CORRESPONDING SECRETARY:

REV. HENRY ATCHESON, F.C.P.S.

CURATORS :

REV. JOHN GRAHAM.....	GEOLOGY.
WILLIAM MARSHALL, F.G.S....	MINERALOGY.
JAMES ATKINSON.....	COMPARATIVE ANATOMY.
REV. J. B. GRAHAM.....	ORNITHOLOGY.
THOMAS BACKHOUSE.....	ENTOMOLOGY.
REV. W. HINCKS, F.L.S.....	BOTANY.
REV. C. WELLBELOVED.....	ANTIQUITIES AND COINS.
REV. WILLIAM LUND.....	LIBRARY.

 KEEPER OF THE MUSEUM :

JOHN PHILLIPS, F.G.S.

 SUB - CURATOR :

HENRY BAINES.

R E P O R T

O F

The Council

TO THE ANNUAL MEETING OF THE SOCIETY,
ON THE 1ST OF FEBRUARY, 1831.

IN the last Report of the Council a confident expectation was expressed, that in occupying the NEW MUSEUM, the Society might promise itself, from the enlarged scale of its establishment, a great advancement of its objects, and a wider field of public utility.

The lapse of a year already brings proof that such an expectation was not unfounded; and the Council refer the Meeting for the most striking evidence of the extensive interest excited by the Institution to the fact, that the Admissions of Visitors for nine months during which the books have been regularly kept, have amounted to nearly four thousand, exclusive of the unrecorded visits of the Members and their families.

In the number of those whose curiosity has thus been gratified, or whose investigations have been assisted, there are some from distant countries. And, whether it be desirable

to encourage intellectual commerce and communion, by offering freely to strangers the hospitality of science, or whether any wish be felt to shew the mental cultivation of our country in an advantageous light, it cannot but gratify the Meeting to reflect, that the eye of the scientific traveller has rested, with approbation and profit, on the collections which the Museum now displays. Without forgetting its obligations to the Crown, the Society may be permitted to boast that these collections and the edifice which contains them have not been furnished from the public revenue, nor bestowed by royal munificence ; and when it is considered that ONE COUNTY of England has supplied this provision for the advancement of natural knowledge, the survey of foreigners and their estimate of our exertions in the cause of science, may be allowed perhaps to kindle some sentiments of national complacency, and an honest warmth of patriotic pride.

It was not in the hope only of advancing the knowledge of nature by the researches of its members, that this Society was founded. One of its principal objects has always been to give to studies too much neglected a more popular currency and a freer facility of access, to attract attention to philosophical subjects, to awaken scientific curiosity, and afford more ready means of information. This indeed is the charter of the Institution ; this is the tenure on which it must rest its most constant claim to public support : on this principle of communicating and diffusing knowledge its rules have been framed ; and to this principle the views of the Council have been directed, in all the arrangements which they

have made to meet the altered circumstances in which the establishment is placed.

No considerations either of economy or convenience have been allowed to compete with the purpose of public instruction. To exhibit every thing which the Society possesses, with the exception only of its Books and Coins, as completely and constantly as possible, is the object which has been kept in view.

The admission of visitors has been made more open and unreserved than is perhaps the usual practice of similar Institutions ; and the Council have the satisfaction to add, that no loss or injury whatever has hitherto been sustained, from following this liberal course. On the other hand, if among the many thousand persons who have visited our Museum, there are those whose inspection of its contents has either promoted their enquiries, or diverted them from less elevated and beneficial pursuits to feel an interest in any part of the mechanism of nature, the object of the Society is so far attained.

Neither is such a system altogether unfruitful in enriching the Institution itself, and producing the remuneration of a corresponding return. The attention of the public is thus directed to its objects and wants ; the liberality of its admissions is repaid with interest ; its collections are remembered by distant friends ; the stranger is heard from again as a benefactor, and the hoard of the private collector yields up something to the public use.

Whilst these feelings operate on the casual visitor, the members of the Society also are more assiduous in bestowing gifts upon an establishment which displays them to so much advantage. Spacious accommodations are not without a powerful effect in inviting contributions. No man is pleased to find that his donations have been consigned to obscurity. Nor is this a mortification only to an idle vanity; but the donor who is influenced by higher motives may justly expect that what he bestows from a principle of public spirit, shall be applied effectively to the public advantage. And thus a perfect system of exhibition, however costly, compensates its expenses by its fruits; and those scientific arrangements and elaborate catalogues which the Keeper of the Museum is employed in making, to interpret its contents, will be found to avail equally in rendering it at the same time popular and instructive.

The most striking tribute which has been offered to the Society's enlarged means of exhibition, is the donation which the Curator of Entomology¹ has made of his whole private collection of British Insects. Fifteen hundred specimens in excellent preservation have thus been added to the means already provided for studying these minute productions of nature. It is not often that a collection of so much interest is given away by the hand which formed it; and in the sacrifice of these valuable fruits of a long cherished pursuit to a public repository, the Meeting will not fail to recognize a proof not only of the uncommon liberality of the donor, but of the high estimation in which the Museum is held.

¹Thomas Backhouse, Esq.

In recording this present, the Council may be allowed perhaps to add a remark upon the merits of the system which this Society has adopted, in appointing several Curators to take charge of the several scientific collections. The interest which this system creates in promoting the improvement of the collections is satisfactorily shewn in the present contribution, in those which have been so liberally advanced to the library¹ and the garden,² and in the valuable deposit, for the Society's use, of the collection belonging to the Curator of comparative anatomy.³ These appointments are likewise of essential utility, both in attracting the specific attention of particular members to a particular province of science, and in lightening the extensive and still extending labours of the general Curator.

In surveying the lists of donations which are now presented to the Meeting, it will be apparent that the gifts bestowed on every department of the Museum during the past year, have been more than ever valuable and abundant.

Among the most important additions to the GEOLOGICAL COLLECTION, are those which illustrate the organic remains contained in the beds belonging to the series of *carboniferous* and *transition* limestones. The transition fossils from Norway,⁴ together with those from Herefordshire,⁵ in which is included the radius of a *Balistes*; the numerous specimens collected from the Mountain Limestone series of Northum-

¹ By Eustachius Strickland, Esq. ² By the Rev. W. Hincks, ³ J. Atkinson, Esq.

⁴ Presented by the Countess of Denbigh. ⁵ By the Rev. T. Lewis.

berland,¹ several of which are undescribed species; with those which have been obtained from the same series in Craven,² have added considerable information respecting the lowest of the fossil-bearing strata. Nevertheless the Council beg leave to call the attention of the geological members of the Society to the necessity for further labours in this field. The beds of limestone and shale which traverse the western parts of this county have not yet been adequately examined; and such labours would probably not only enrich the Museum with new and rare specimens, but set at rest some important theoretical questions, of which a satisfactory solution can only be obtained from closer research and a more copious induction of facts.

Madrepores and crinoidal specimens of great beauty have been furnished from the oolitic rocks of Somersetshire and Wiltshire,³ and in conjunction with the discoveries of saurian teeth, and fish palates in the Forest Marble⁴ and Cornbrash⁵ of Yorkshire, have supplied additional means of comparing the character of the extreme points to which in England those strata extend; the Astaci likewise, which have been found in the Cornbrash at Scarborough,⁶ complete the evidence of the close resemblance in all the conchiferous beds of that series; and the detection of plants in the Forest Marble,⁷ and in beds intervening between it and the Bath Oolite,⁸ the same as those which occur above and below them,

¹ By the Rev. C. Vernon. ² By C. Preston, Esq. ³ By — Loscombe, Esq.

⁴ By F. Cholmeley, Esq. ⁵ By Miss Louisa Belcombe. ⁶ Presented by Mr. Dunn.

⁷ By Mr. Phillips. ⁸ By the Rev. W. Vernon.

shew the continuous similarity of this portion of the ancient Flora.

In Fossil Botany also, the transparent sections¹ which have been no less beautifully executed than ingeniously devised, to illustrate such analogies or differences as can be perceived in the structure of primeval and existing vegetation, are well worthy the attention of the Meeting. And in the comparative anatomy of fossils, a valuable accession has accrued to the display of an extinct race of animals by whom the earth was inhabited at some remote and as yet undetermined era, in the head and horns of the gigantic Irish Elk.²

The Council, in concluding their remarks upon the geological contributions, cannot pass over in silence the last donation to this Museum from one who had in it a paternal interest.—MR. THORPE was among the first three founders of the original collection; he was one of those whose liberal spirit planted the germ which has since produced such abundant fruit in the now extensive geological treasures of this Society; and his name deserves to stand upon its records as that of a man who, when the interest of the extraordinary discoveries at Kirkdale was at its height, in giving his own collection of those rare remains, saw and embraced the proper moment for effecting by a personal sacrifice an important public object.

¹ Presented by H. Witham, Esq. with his work explanatory of the subject.

² Presented by F. H. Fawkes, Esq.

The most considerable MINERALOGICAL donations of the year have been two large contributions, consisting together of one hundred and eighty six specimens, from a member¹ to whom the Society's Museum has been under repeated obligations,—a meteoric stone which fell at Juvenas in France, in June 1821,² given to the donor by M. Alex. de Humboldt, entire, and completely coated with the glaze peculiar to these singular substances,—a new ore of lead from Cumberland,³—and an undescribed mineral which came among several silver ores from Columbia,⁴ and which appears from the analysis to which it has been subjected, to be a compound of mercury, sulphur, and selenium. Specimens also which have been presented,⁵ of laminated blende forming septa in the argillaceous nodules of several beds in the oolitic series, are of interest as shewing a mineralogical analogy between these and the lias strata, in the fossils of which the presence of this mineral has before been noticed.

Among the ZOOLOGICAL acquisitions, besides the collection of Insects already noticed, there have been added many interesting specimens of Fishes, Reptiles and Birds. With respect to the Society's collection of British Birds, it may be worth while to observe that it is principally deficient in the most common kinds; and the Curator has reported this deficiency in the hope that it may speedily be supplied by the friends of the Institution. The Council would also call the attention of the meeting to a donation⁶ of the

¹ W. Danby, Esq. ² Presented by the Rev. W. Vernon. ³ By Sir J.V.B. Johnstone, Bart. ⁴ Presented by Thomas Richardson, Esq. analysed by the Rev. W. Vernon.

⁵ By the Rev. W. Vernon. ⁶ By E. Strickland, Esq.

skeletons of various species of birds. Such illustrations of the structure of the animal frame are very serviceable to the lecturer in natural history, and it is much to be wished that they may be so multiplied as to form, conjointly with the collection deposited in the Museum by the Curator of comparative anatomy, a series more completely instructive to the student.

It has been thought by some members of the Society, who take an interest in Zoology, that it would be a valuable improvement to this department, if in addition to the stuffed specimens of the cabinet, a limited collection of living animals could be maintained in the grounds. That the experiment, however, might entail no charge upon the Society, a small private fund has been raised to defray the expense of it ; a few purchases have been made, and some valuable donations received.

The arrangement of the GARDEN has been completed by covering the walks with gravel, and introducing a regular supply of river water. The exertions of the Sub-curator in promoting the objects and interests of the Society, both here and in the Museum, have been highly satisfactory. Considerable progress has been made in forming a collection of hardy herbaceous plants, which are disposed in an order of natural groups ; and many liberal contributions have been received. Two more Herbariums have been added to the dried specimens in the custody of the Botanical Curator,

of which one consists of Indian plants,¹ and the other was collected in Germany.²

To the donor of the latter the Society has been under numerous obligations; but the munificent present which he has this year made to the LIBRARY deserves particular notice; a present consisting of costly and useful books on various subjects of natural history and philosophy, amounting to no less a number than two hundred volumes. The Council has also to acknowledge the honor of having received copies of several new works from their ingenious Authors, and of having been favored with the publications of many learned bodies, in particular with the Reports of the Literary and Philosophical Societies of Leeds and Newcastle; the Abstracts of the Proceedings of the Geological Society of London; the Transactions of the Society of Arts, of the Royal Asiatic Society, and the Asiatic Society of Bengal; and the Archæologia of the Antiquarian Society of Newcastle.

Lastly, to the cabinet of ANTIQUITIES, and to the collection, if collection it can yet be called, of PHILOSOPHICAL APPARATUS, some valuable additions have been made. Of the former the most remarkable are the various relics of ancient superstition, combined with ancient art and learning, which have been brought by the donor³ from the catacombs of Thebes in upper Egypt. The latter consist of an

¹ Presented by the Rev. J. Graham. ² Presented by S. Stapylton, Esq.

³ Col. H. Vernon.

achromatic microscope,¹ a large electrical battery,² and a new discharging electrometer.³

The GENERAL MEETINGS of the Society have continued to derive interest from the philosophical and antiquarian researches communicated by the members;⁴ and the accommodation of the Council room has been allowed to evening parties which assemble for similar purposes of scientific intercourse. A gratuitous EVENING LECTURE ON GEOLOGY was delivered to the Members and their friends by Mr. Phillips, at the season when the business of the spring assizes collects the county together; and it was attended by a very crowded audience. Three COURSES OF LECTURES have also been given during the year to subscribers; the subject of the first⁵ was the Structure of Animals, in relation to their habits of life; the second⁶ embraced the general principles of Botanical Science, and the third⁷ the phenomena of Electricity and Galvanism. On none of these lectures was any loss sustained by the Society; and of the course upon Botany the entire profits were transferred by the liberality of the lecturer to the use of the garden. The produce of the lectures given by the Keeper of the Museum was assigned by the Council to himself; and this arrangement was received with a satisfaction which manifested itself in a numerous attendance on the course. He proposes in the ensuing season to continue the subject, to develop in fuller

¹ Presented by S. Stapylton, Esq. ² By Mr. W. Gray, jun.

³ Presented by the Rev. Wm. Taylor. ⁴ See list of Communications, page 23.

⁵ Delivered by Mr. Phillips. ⁶ By the Rev. W. Hincks, F. L. S.

⁷ By J. Murray, Esq. F. S. A. &c. &c.

detail the principles of construction with reference to which the organs of animal sense and motion have been contrived, and to describe the mechanical and physical methods employed by the wisdom of the Creator, in producing the multiplied varieties of movement in the limbs, and the delicate adjustments of vision in the eye.¹

The Council consider it as the most gratifying communication which they have to make to the Meeting, that the time is arrived, at which they can properly propose an advance of salary to this able and devoted Officer of the Society, which is due not only to the merits of the individual, but to the interests of the Institution. Such has now become the prosperous state of the annual income, that after the salary of the Keeper of the Museum shall have been advanced, and all the necessary expenses of the establishment defrayed, enough will remain to meet the interest of the debt under which the Society still labours, and to afford means for paying off the principal by slow degrees.

The appeal which was made in the last Report to the liberality of the public, produced additional donations to the amount of 660*l*. Of this sum, about 460*l*. has been applied to defray the expenses incurred since that Report, in the transfer of the Society's collections and the occupation of the new Museum, including some charges connected with the Garden. The remainder, together with the surplus of the year's income;

¹ In consequence of other engagements, Mr. Phillips has since determined to withdraw these lectures for the present, and to substitute a course on GEOLOGY, which will be delivered in March.

is applicable to the liquidation of the debt. The sum in which, after this reduction, the Society will continue to be indebted to the Bank, is 1306*l.*; and the Council submit to the Meeting the following plan for paying off that account.

They propose to borrow 1300*l.*, at an interest of 4 *per cent.* from such members of the Society as may be willing to lend. The interest upon each loan of 50*l.* would be exactly the sum of a member's annual subscription. By remitting the subscription, therefore, the interest would be paid. In this method of raising the money, there would be a convenience both to the lender and the borrower; since to the former the trouble of an annual account would be saved, whilst the latter would not incur the risk of being called upon to discharge the whole debt at once : and in case of any member's withdrawing his share of the loan, another might be found to supply his place.

In order to shew that the Society possesses the means of acquitting itself by degrees of the principal of the debt, it is necessary to state, in the first place, that the present regular income is 509*l.* a year; and, secondly, to add an account of the annual demands upon that income, and to exhibit the scale by which it is thought that the expenditure may be regulated in future.

The constant and fixed charge upon the Society, arising from parochial rates, rent, wages, and salaries as now proposed to be settled, amounts to 207*l.* The charges which may be computed as unavoidable, or only to be retrenched

from urgent necessity ;—charges for printing and stationery, for purchasing and binding books, for garden labour, fuel, carriage of goods, postage and other incidental expenses, may be stated at 180*l*. Together, then, the whole regular expenditure is 387*l*. which, deducted from an income of 509*l*. leaves a surplus of 122*l*. ; and when from this is taken the interest of the debt, which at 4 per cent is 52*l*., the real surplus of income is 70*l*. ; a surplus which will admit of paying off one creditor yearly, and leave 20*l*. for the purchase of specimens or apparatus.

Such is the course the Council would recommend, as that which should hereafter be kept steadily in view ; and if they propose any departure from it for the present year, it is only in order to meet an immediate and pressing necessity. The Museum and Library have been fitted up with cases, some for temporary and others for permanent use, but altogether barely sufficient to contain the present collection : more of this expensive furniture already begins to be wanted, and the Council cannot advise supplying this want by a system of shifts and expedients, which in the end entail more expense with less of ornament or use. They propose therefore that the surplus of the present year's income, together with the admission fees of new members, shall be appropriated to the purpose of providing cases for the Library and Museum. The sum indeed which this appropriation will furnish is very inadequate to the object in view, but it will effect something ; and the Council cannot but cherish a hope that the deficiency will yet be supplied by some further contributions to this definite end, from those to whom it would be gratifying

to witness the speedy and satisfactory completion of the establishment.

The account which has now been given of the state of the Society's income, together with the fact, that in the two last years no less than FIFTY-FIVE new members have been admitted, will afford a satisfactory proof to the Meeting, that an Institution boldly erected on a scale of sufficient magnitude for the object which it proposed to accomplish, has not failed to meet with a corresponding degree of liberal and zealous support. The risk of failure may now be considered as surmounted: the labour of the first arrangements is drawing to a close. Other cares wait on the future progress of the Society, which are of a more pleasing and elevated kind.

In looking to the future, it is gratifying to observe, that those who shall hereafter take a share in administering its affairs will have a smoother path to pursue. In reviewing the past, the acknowledgments must not be forgotten which are due to those who were first in the field: nor can the Council conclude their Report without noticing with regret the retirement of their coadjutor, the late senior Secretary, from the office which he has so long discharged, and without offering him the well earned tribute of their warmest thanks. From the infancy of the Society he has borne a large share of the burthen of its establishment, and has conducted its concerns with the unremitting ardour and constancy which such undertakings require. These disinterested exertions have begun to find their reward in the present success of the

Institution : and whilst in new hands it continues to prosper more and more, its early friends will still view it with increased satisfaction, rising in reputation from year to year, improving its resources, augmenting its acquisitions, and extending the sphere of its activity. Nor will they have cause to regret any time or labour which they have ever bestowed upon it, if it shall eventually accomplish the two great ends for which it was founded;—the erection of a well-supported SCHOOL OF SCIENCE in this northern metropolis, and the execution of such a HISTORY OF YORKSHIRE as the antiquary and the natural historian may be contented to possess.

After reading the Report, the PRESIDENT said:—

“That objects so comprehensive as those which had been stated in the conclusion of the Report, could only be effected by a COUNTY INSTITUTION; and to this character the Society might now justly lay claim, having members and contributors in all parts of Yorkshire, and being possessed of a commensurate establishment. On one point, however, it was still defective ; to complete the plan of such an Institution, it remained for the Meeting to choose A PRESIDENT, who, adding to ardour for the objects of the Society, the influence of rank and property, might be at once a zealous director of its course, and a powerful guardian of its interests. During the period of its first struggle for existence, the choice of a President was limited, by the pressure of business, within a narrow compass ; and contiguity of residence was

a necessary qualification. But this necessity having ceased, the same desire to promote the good of the Institution which had before induced him to undertake the office, had now determined him to resign it.

“In the event of the choice of the Meeting falling upon a member who resided at a distance from York, the Council proposed to provide against any inconvenience to be apprehended from this circumstance, by recommending one of the Vice-Presidents to take the chair in the President’s absence, and to execute the duties which he might not be able personally to discharge. If the deputy thus appointed should be annually changed, a greater number of persons would successively be called to take a nearer share, and feel a livelier interest, in the concerns of the Society; and considerable advantage might be looked for from the multiplied activity which would be produced by such an arrangement.

“It was not, however, a merely nominal President whose appointment could give satisfaction. To the influence of station and property, there should be added the disposition and ability to take an effective part in the transactions of the Institution: and this union of qualities was not easily to be met with. Yet there was a member of the Society in whom he believed them to be eminently combined; a member who had shewn the earliest interest in its proceedings, and who had attended the first meeting at which a scientific communication was made; a member to whose favourable opinion the Society was indebted for the most

munificent donation¹ which had been contributed towards the erection of the new Museum ; a member who added to the inheritance of fortune and rank, the habits of public business, and the endowments of a liberal and cultivated mind. That member was LORD MILTON. He was able also to state that Lord Milton would be ready to fill any office connected with the Society, in which it might be thought that he could render it any service ; and he had reason to believe that such a manner of serving the public would be more congenial to his Lordship's feelings, than any of the more bustling employments of political life."

The President having left the Chair, and the Hon. and Rev. HENRY HOWARD being called thereto, it was Moved by Mr. ATKINSON, Seconded by the Rev. D. R. CURRER, and voted unanimously,—

That the thanks of the Society be given to the Rev. WILLIAM VERNON HARCOURT, for the zealous and constant attention with which, as President of the Institution, he has so long watched over its progress, and fostered its rising energies : and that the expression of their deep regret for the loss of his future services in that office, is united with sincere congratulations, that the high objects which he laboured to accomplish have been so fully attained.

Mr. VERNON HARCOURT expressed his gratitude for the confidence which had been reposed in him by the

¹ Earl Fitzwilliam's donation of 300*l*.

Society, and for the uniform kindness and zealous assistance which he had at all times received from his coadjutors in conducting its affairs. To no one had he been more indebted for friendly and able co-operation, than to the late Secretary, Dr. Goldie, and to no one were the thanks of the Society more justly due. He therefore proposed,—

That the thanks of the Society be given to Dr. GOLDIE, for the eminent services which he had rendered to the Institution in the office which he had so long and ably filled. The Motion was Seconded by Mr. EUST. STRICKLAND, and carried unanimously.

The thanks of the Meeting were also voted to the late Vice-Presidents, and to the Members of Council retiring by seniority.

THE TREASURER'S ANNUAL

<i>Dr.</i>	£.	s.	d.
Balance in the Treasurer's hands, January 1830.....	28	14	11
Received arrears of members' annual subscriptions.....	33	0	0
Received admission money from 29 members.....	145	0	0
Received annual subscriptions from 178 members at 2 <i>l.</i> ..	356	0	0
Received ditto from five members at 1 <i>l.</i> ..	5	0	0
Received compositions in lieu of annual subscriptions from three members.....	60	0	0
Received of Egerton V. Vernon, Esq. subscription and donation.....	5	0	0
Received of Eustachius Strickland, Esq. donation for the purchase of specimens in natural history.....	5	0	0
Received of the Rev. W. Hincks the profits of a course of lectures on Botany.....	13	6	9
Received for keys of the Gardens.....	6	15	0
Received from Ladies, being Annual Subscribers.....	9	0	0
Received of the Scarborough Philosophical Society for a duplicate copy of Sowerby's Mineral Conchology.	12	10	0

£679 6 8

ACCOUNT FOR 1830.

<i>Cr.</i>	£.	s.	d.
Interest paid to Messrs. Swann and Co. on account of the Building fund.....	77	9	6
Paid for purchase and preparation of specimens.....	37	17	0
Books and binding.....	51	12	1
Binding and title pages to "Account of St. Mary's Abbey"	17	6	0
Printing and Advertising :			
Report for 1829.....	38	6	3
Miscellaneous	25	14	8
	64	0	11
Stationery.....	11	1	6
Rent and other Charges :			
Rent to the Crown, 3 years	3	2	0
Ditto to the Corporation, 1½ years.	9	18	9
Parochial rates... ..	18	10	8
Water rent	3	3	0
Insurance	5	8	6
	40	2	11
Salaries and Wages :			
Keeper of the Museum:.....	60	0	0
Subcurator.....	54	12	0
Servant (to July)	10	0	0
Lodge-keeper (three quarters of a year).	7	10	0
	132	2	0
Expenses of Garden :			
Day labour.....	53	16	8
Shrubs, &c	14	2	0
	67	18	8
Miscellaneous Expenses :			
Compensation to an occupier of part of the ground	3	15	0
Carriage, Postage, and incidental expenses.....	44	7	0
Coke and Coal.....	21	0	3
Sundry small bills.....	9	11	0
	78	13	3
Balance in the Treasurer's hands on this account,			
January 1831.....	101	2	10
	£679 6 8		

BUILDING ACCOUNT.

	£.	s.	d.		£.	s.	d.
Amount of Subscriptions announced in the Report for 1829.....	7775	10	0	Expenditure as stated in the Report for 1829.....	9786	17	11
Additional Subscriptions, 1830.....	660	17	0	Stamp and fees on the grant from the Crown.....	44	8	2
Interest allowed by the Bankers.....	184	0	0	Payment for excavating and laying out Ground, omitted in the Report for 1829.....	51	2	7
Discount and allowances from Contractors, 1830.....	39	0	0	Two other small payments omitted in the same Report...	8	18	0
Received by sale of the "Account of Saint Mary's Abbey."	148	10	0	Additional expenses in 1830, connected with the fitting up and completion of the Museum and Grounds.....	462	15	4
Balance due to the Treasurer on this account.....	1659	12	0	Building Subscriptions unpaid.....	113	7	0
	<u>£10,467 9 0</u>				<u>£10,467 9 0</u>		

Balance against the Society on the Building Account.....	1659	12	0
Surplus of Annual Income, 1830.....	101	2	10
Annual Subscriptions unpaid.....	93	0	0
Due for Copies of the "Account of St. Mary's Abbey,"	46	10	0
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	<u>353 19 10</u>		
Final Balance against the Society	£1305	12	2

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by the Rev. T. Rankin.

On some Geological Phenomena in Caermarthenshire: by Mr.
Price.

On an ancient Seal, in the possession of the Society: by
Michael Jones, Esq. F. S. A.

On the supposed Footprints of Quadrupeds on the Sandstone rock
of Dumfriesshire: by H. Witham, Esq. F. G. S.

APRIL.—On a crystallized Oxide of Zinc, procured from the
Zinc Works at Filisur, in the Grisons;¹—on the colouring matter

¹ Phil. Mag. and Annals, June 1830.

of blue glass beads found in the Tumuli of the Yorkshire Wolds ; and on the presence of calcareous Spar in the black Pottery of the Romans ; by the Rev. W. V. Vernon, F. R. S. &c.

JULY.—On the fossil Crustacea of the Yorkshire coast : by John Phillips, F. G. S.

OCTOBER.—On a mode of preserving the soft parts of animals : by the Rev. W. V. Vernon.

On certain Geological Phenomena in Switzerland: by John Phillips, F. G. S.

NOVEMBER.—On the recent discoveries of Etruscan Antiquities, in consequence of excavations on the estate of the Prince of Canino : by the Rev. J. Kenrick.

DECEMBER.—On some new modifications of Electrical Apparatus : by the Rev. W. Taylor, and J. Phillips, F. G. S.

JANUARY 1831.—On the succession of Limestones in Northumberland : by the Rev. C. V. Vernon.

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- Hawksworth Fawkes, Esq. { Head of the Irish Elk, (*Cervus euryceros*, *hibernicus*, *giganteus*, of different Authors.)

S. Hailstone, Esq.	{ Specimens of the rocks of Scotland, collected by himself. Fossil plants from near Bradford.
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Mr. Rippon.	3 fossil shells.
Mr. John Smith.	Ammonites annulatus, &c.
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Mr. John Smith.....	Scoria from Low Moor iron works.
Mr. H. Smith.....	Galena from Spain.
Rev. W. V. Vernon.....	Meteorolite from Juvenas.

ZOOLOGY.

Mr. Allis.	Helix distorta.
R. J. Anderson, Esq.	Wild Swan.
James Atkinson, Esq.	Echinus esculentus.
Thomas Backhouse, Esq.	{ His whole Collection of British Insects, consisting of 550 specimens of Lepidoptera, 900 Coleoptera, 50 of the other orders, all in fine preservation.
Mr. H. Baines.	{ Snake from the West Indies. Jay, Starling, Ring Dottrel, Arctic Gull, Turnstone, Woodcock, Purple Sand-piper.
Capt. H. J. Bland.	Paws of Seal, and of Polar Bear.
Mr. J. A. Bulmer.	Cobra di capello. Æsculapian Serpent. Beak of a Sawfish.
Rev. J. Charnock.	{ Ostrich's egg. 2 Tortoises. Sawfish ; beak of the same. Bones of the Whale's ear.
Master W. Clark.	Eggs of 35 species of British birds.
E. T. Copley, Esq.	{ Spectacle Pelican. (<i>onocrotalus perspicillatus</i> .) 10 Birds from New South Wales. Shoveller duck, King-fisher, Landrail, Mountain Parrot.

Rev. S. Creyke.....	Diodon holocanthus, <i>Linn.</i>
W. Danby, Esq.....	4 species of Lithophagous shells, in red marl. British shells and corallines.
Mrs. R. Davies.....	Grapsus pictus.
Mr. Dickson, <i>Elvington</i> ..	A Bone of Monodon monoceros.
Wm. Duffin, Esq.....	Frog from Demerara.
J. Dunnington, Esq.....	A Swan.
Rev. John Empson.....	Horns of the Chamois.
Dr. Farrer, <i>Barnsley</i>	20 skins of British birds.
Hawksworth Fawkes, Esq.	Skull of the Nilotic Crocodile.
Lord Feversham.....	Heron. (<i>ardea cinerea</i> .) Scaup duck. (<i>anas marila</i> .)
Randall Gossip, Esq.....	White Stoat. Long-eared Owl. (<i>strix otus</i> .)
Rev. J. Graham.....	Grebe and Falcon from South America.
Rev. Thomas Guy.....	Landrail.
Mr. Hart.....	Skull of a Walrus.
Mr. Hayes, <i>Pickering</i>	Egg of the Ostrich.
W. H. Hearon, Esq.....	Buzzard in pale plumage.
John Hey, Esq.....	Pterostichus iridipennis, a pair.
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Mr. Jackson.....	Sea Lamprey.
Rev. Mr. Jameson, <i>Ripon</i> .	Gorgonia flabellum.
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Sir. W. Milner, Bart.....	Porpoise taken in the river Wharfe.
Thomas Meynell, Jun. Esq.	{ 20 British Insects, including Hesperophilus arenarius, Strongylus ferrugineus, Bembidium paludosum, &c.

Professor Necker.....	Land and freshwater shells of Carniola.
Mr. Noble.....	Skull of Horse, from a drain near Haxby.
Mr. Phillips.....	Several recent Crustacea.
Mr. Robert Pickering....	{ Horns of the Cashmerian Goat. Sucking fish. (<i>echeneis remora</i> .) Egret and Golden Pheasant.
Captain Porter.....	Lanius sulphuratus, and seven other South American birds.
Mr. D. Priestman.....	Eared Grebe.
Mr. Rippon.....	Pied Blackbird, Water Ouzel, Large Shrike, Short-horned Owl.
C. Robinson, Esq.....	8 Fishes from the Cumberland coast.
Miss H. H. Roddam.....	Nereis cærulea, Yorkshire coast.
Thomas Smith, Esq.....	Corncrake.
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Thomas Smyth, Esq.....	Hair of Elephant. Tusk of Malay Boar.
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Rev. C. Sykes.....	Red-throated Diver. Lesser spotted Shark, from the coast of Holderness.
Mrs. Taylor.....	Flying-fish.

Rev. W. V. Vernon	Goatsucker. American Serpent. Skeleton of a Fox.
Mr. Thomas Ward	Quail, shot 21st Oct. near Ripon.
Dr. Wasse	Stoat.
R. Watt, Esq	Crocodilus acutus, (<i>Cuv.</i>) Jamaica.
Mr. E. White	{ Pair of Pintados. Vertebra and jaws of Shark. <i>Fusus colus</i> , and other shells.
Miss Wickham	
Mr. Williamson	Pair of Dottrels, from the Wolds.
Mr. J. Wilson	Hind paw of Seal.
Master Wright, <i>Askham</i> . .	{ <i>Hydaticus transversalis</i> , <i>Colymbetes vi-</i> <i>treus</i> , <i>Dromius sigma</i> , and other British Insects.

BOTANY.

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Anth. Thorpe, Esq.	
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Serres, Anatomie du Cerveau, 8vo. et planches, in 4to.
Flourens sur le Système Nerveux, 8vo.
Buhle, Histoire de la Philosophie Moderne, 6 tom. 8vo.
Eaton's Geology.
American Atlas, folio ;
Several Maps, &c. &c. &c.

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ERRATUM, page 33.

For J. Dunnington, Esq. *read* J. Dunnington Jefferson, Esq.

Presented
3 MAR 1888

